DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

U

U185 (B12)
GULF 1 BOYLE
NE SW SEC. 4, T. 8 S., R. 52 E.,
POWDER RIVER COUNTY, MONTANA
KB 3448'

U 186 (D 32)
SAM GARY 1 FED.-BEAGLE
NW NW SEC. 17, T. 57 N., R. 70 W.,
CAMPBELL COUNTY, WYOMING
KB 3533'

U 187 (F 49)
READING & BATES 2 NORFOLK
SE NW SEC. 10, T. 54 N., R. 71 W.,
CAMPBELL COUNTY, WYOMING
KB 3877'

U 188 (H 68)
DAVIS 1 JOSEPHINE
SW SE SEC. 27, T. 52 N., R. 70 W.,
CAMPBELL COUNTY, WYOMING
KB 4131'

U189 (J 92)
NAT. COOP. REF. 1 GOVT.
NW SE SEC. 15, T. 49 N., R. 70 W.,
CAMPBELL COUNTY, WYOMING
KB 4648'

U190 (L 113)
COQUINA 1 RENE-FED.
NE NE SEC. 18, T. 46 N., R. 69 W.,
CAMPBELL COUNTY, WYOMING
KB 4888'

U191 (O 134)
ROCHELLE 1 GOVT.
NW SE SEC. 1, T. 43 N., R. 69 W.,
CAMPBELL COUNTY, WYOMING
KB 4553'

U192
COBB SUPERIOR 1 DULL CENTER
SE SE SEC.5, T. 40 N., R. 68 W.,
CONVERSE COUNTY, WYOMING
KB 4557'

U1
TRUE 1-
NW SW
NIOBRAR
KB

SYSTEM OR SERIES

UPPER CRETACEOUS

LOWER CRETACEOUS

LANCE FORMATION AND FOX HILLS SANDSTONE, UNDIVIDED
RED BIRD SILTY MEMBER
MITTEN BLACK SHALE MEMBER
PIERRE SHALE
SHANNON SANDSTONE MEMBER
EQUIVALENT
GAMMON FERRUGINOUS MEMBER
NIOBRARA FORMATION
CARLILE SHALE
GREENHORN FORMATION
BELLE FOURCHE SHALE
BASE OF CLAY SPUR BENTONITE BED
MOWRY SHALE
MUDDY SANDSTONE
SKULL CREEK SHALE
*"DAKOTA SILT"
INYAN KARA GROUP
SAGE BREAKS MEMBER
TURNER SANDY MEMBER
POOL CREEK MEMBER
SUSSEX SANDSTONE MEMBER EQUIVALENT
GASE OF ARDMORE BENTONITE BED
MORRISON FORMATION
SUNDANCE FORMATION
TECKLA SANDSTONE MEMBER ?

F
1

OPEN FILE 86-465U

(H 68)
1 JOSEPHINE
SEC. 27, T. 52 N., R. 70 W.,
BELL COUNTY, WYOMING
4131'

U189 (J 92)
NAT. COOP. REF. 1 GOVT.
NW SE SEC. 15, T. 49 N., R. 70 W.,
CAMPBELL COUNTY, WYOMING
KB 4648'

U190 (L 113)
COQUINA 1 RENE-FED.
NE NE SEC. 18, T. 46 N., R. 69 W.,
CAMPBELL COUNTY, WYOMING
KB 4888'

U191 (O 134)
ROCHELLE 1 GOVT.
NW SE SEC. 1, T. 43 N., R. 69 W.,
CAMPBELL COUNTY, WYOMING
KB 4553

U192
COBB SUPERIOR 1 DULL CENTER
SE SE SEC.5, T. 40 N., R. 68 W.,
CONVERSE COUNTY, WYOMING
KB 4557'

U193
TRUE 1-A GIBBS
NW SW SEC.9, T. 37 N., R. 66 W.,
NIOBRARA COUNTY, WYOMING
KB 4347'

U194
MARATHON 1 LANCE CREEK WEST
NW SW SEC. 12, T. 35 N., R. 66 W.,
NIOBRARA COUNTY, WYOMING
KB 4515'

U195
CONTINENTAL 1 LANCE CREEK
NE NW SEC. 1, T.34 N., R. 64 W.,
NIOBRARA COUNTY, WYOMING
KB 4686'

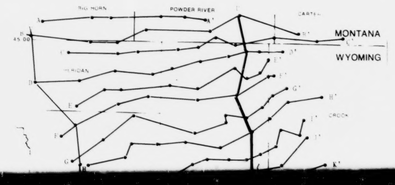
U'

TECKLA SANDSTONE MEMBER
LEWIS SHALE
TEAPOT SANDSTONE MEMBER
MESAVERDE FORMATION
PARKMAN SANDSTONE MEMBER
STEELE SHALE
NIOBRARA FORMATION
CARLILE SHALE
GREENHORN FORMATION
BELLE FOURCHE SHALE
MOWRY SHALE
MUDDY SANDSTONE
SKULL CREEK SHALE
*"DAKOTA SILT"
INYAN KARA GROUP
MORRISON FORMATION
SUNDANCE FORMATION
RED BIRD SILTY MEMBER
MITTEN BLACK SHALE MEMBER
BASE OF ARDMORE BENTONITE BED
SUSSEX SANDSTONE MEMBER EQUIVALENT
PIERRE SHALE
GAMMON FERRUGINOUS MEMBER
SAGE BREAKS MEMBER
TURNER SANDY MEMBER
POOL CREEK MEMBER
BASE OF CLAY SPUR BENTONITE BED

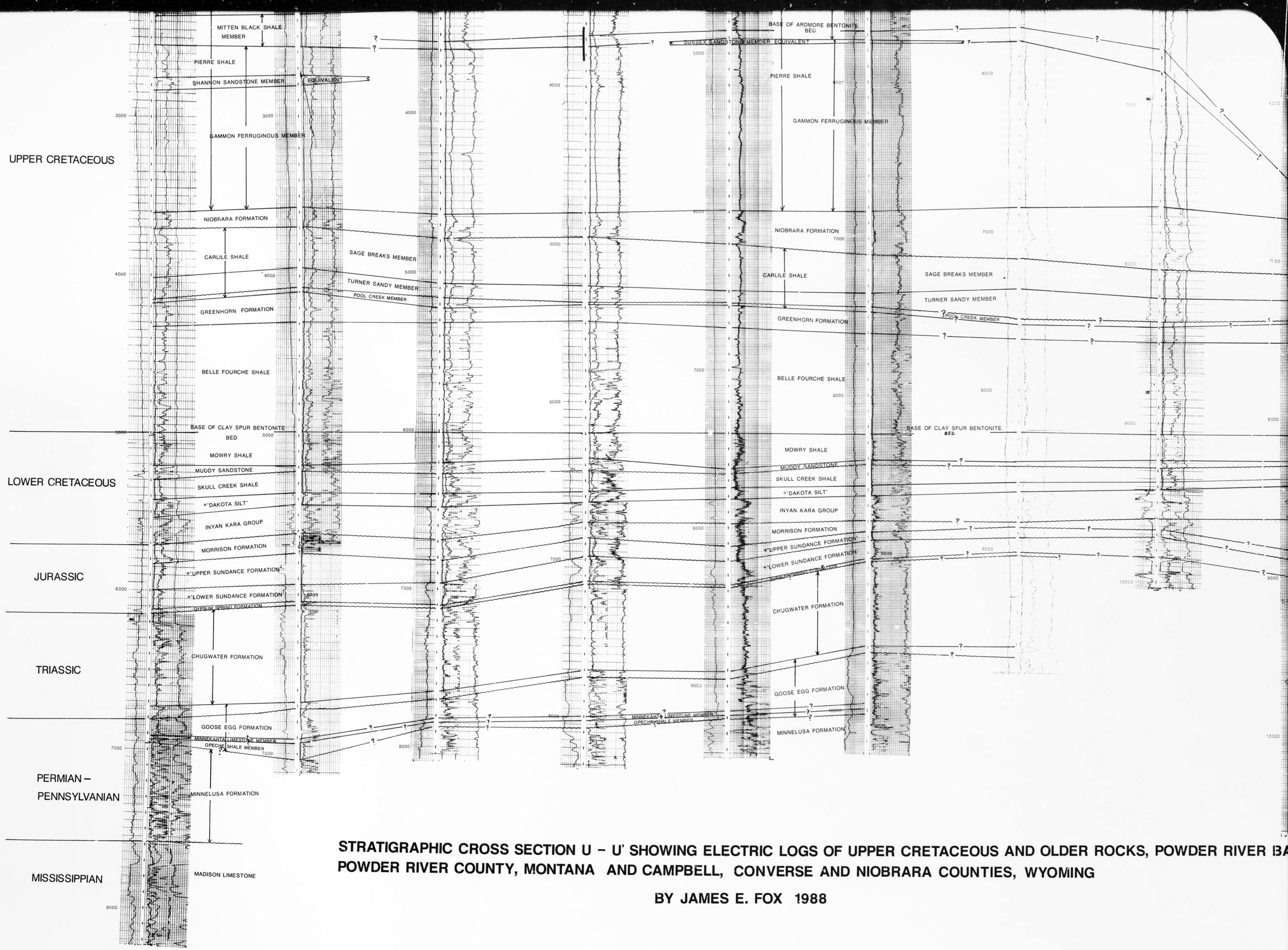
U.S. Geological Survey
OPEN FILE REPORT
This illustration is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.

This cross section was prepared in part for the Evolution of Sedimentary Basins Program.

This north-south cross section was prepared after the release of the earlier east-west cross sections in this group, OF 86-465A through OF 86-465T. Some changes in interpretation are introduced here, particularly in the western portions of the earlier releases. Therefore, in some cases the tops of formations will not agree.



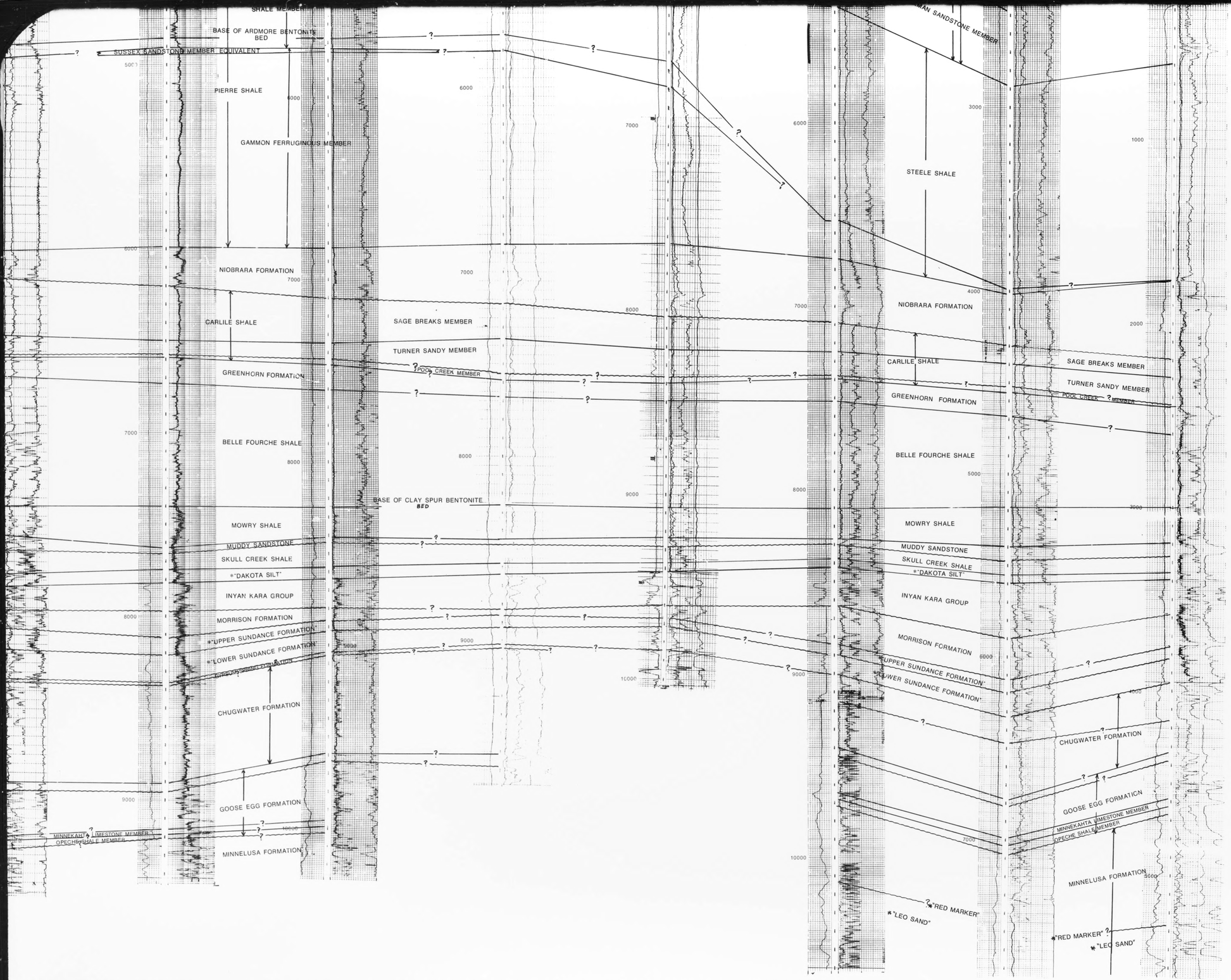
F2



STRATIGRAPHIC CROSS SECTION U – U' SHOWING ELECTRIC LOGS OF UPPER CRETACEOUS AND OLDER ROCKS, POWDER RIVER BA
POWDER RIVER COUNTY, MONTANA AND CAMPBELL, CONVERSE AND NIOBRARA COUNTIES, WYOMING

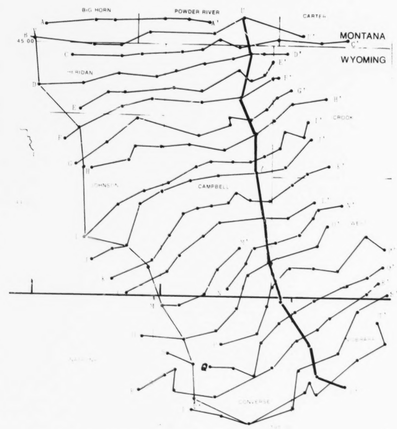
BY JAMES E. FOX 1988

F



This cross section was prepared in part for the Evolution of Sedimentary Basins Program.

This north-south cross section was prepared after the release of the earlier east-west cross sections in this group, OF 86-465A through OF 86-465T. Some changes in interpretation are introduced here, particularly in the western portions of the earlier releases. Therefore, in some cases the tops of formations will not agree.



EXPLANATION

? Correlation line at Middle Cretaceous Unconformity or Intervening Disconformity where correlation is questionable.

? Correlation along an unconformity or disconformity where correlation is uncertain.

Asterisk used subsurface terminology.

Datum on top of Lower Cretaceous Skull Creek.

Spontaneous potential curve

Resistivity curve

Depth of wells in feet, below Kelly Bushing (KB)

Vertical scale 1 inch = 200 feet

– U' SHOWING ELECTRIC LOGS OF UPPER CRETACEOUS AND OLDER ROCKS, POWDER RIVER BASIN, AND CAMPBELL, CONVERSE AND NIOBRARA COUNTIES, WYOMING

BY JAMES E. FOX 1988

F
4